CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-12-23-01** **Date: 27-12-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/37/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-12-17

Sample ID No : 2017-12-23-01/01

Sample Type : ACC 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 25-12-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.13	–
2	Finess by Air permeablity method (m^2/kg, Min)	288.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
Kodigehalli Sub Divisic
Yelahanka Zone, B.B.M.
Bangalore.

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-12-23-01** **Date: 02-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-17
Sample ID No	:	2017-12-23-01/01
Sample Type	:	ACC 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-12-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
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CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2018-01-02-01** **Date: 06-01-18**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-01-18
Sample ID No	:	2018-01-02-01/02
Sample Type /Size	:	CC Kerb Stone/ 450*200*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	02/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	150.02	200.45	3.864	17673	340.1	19.2	19.2	24.1
2	B	150.03	200.47	3.793	17675	343.2	19.4	19.4	24.3
3	C	150.02	200.52	3.815	17673	349.1	19.8	19.8	24.7

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-01-02-01** **Date: 06-01-18**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/37/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-01-18

Sample ID No : 2018-01-02-01/01

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 02/01/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.316	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.322	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.318	4476	81.5	18.2	16.9	21.2

Note:

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Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-10-02** **Date: 16/01/2018**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/37/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 10-01-18

Sample ID No : 2018-01-10-02/01

Customer ID : M25 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M25 Concrete	M25	08/01/2018	15/01/2018	150.22 X 150.28 X 150.31	22575	8.312	523.7	23.2	23.3
2	M25 Concrete	M25	08/01/2018	15/01/2018	150.35 X 150.29 X 150.30	22596	8.308	535.5	23.7	
3	M25 Concrete	M25	08/01/2018	15/01/2018	150.31 X 150.33 X 150.29	22596	8.324	522.0	23.1	

Note:

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Bangalore.

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Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-12-27-04** **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-17
Sample ID No	:	2017-12-27-04/02
Sample Type/Size	:	Solid concrete blocks of size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	27-12-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	100	202	8080	18.245	2258.0	2261.4	Not less than 1800Kg/m^3
2	401	100	201	8060	18.214	2259.8		
3	402	101	200	8120	18.405	2266.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	20.630	19.900	3.67	3.86	Shall not be more than 10% by mass
2	20.280	19.530	3.84		
3	20.698	19.890	4.06		

Assistant Executive Engineer,
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ID : CP-2017-12-27-04 Date: 30-12-17

mple ID No : 2017-12-27-04/02

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	100	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	101	201	
3	400	101	201	
4	400	100	200	
5	401	102	202	
6	402	100	202	
7	401	103	200	
8	400	100	201	
9	400	100	201	
10	402	100	200	
11	401	103	201	
12	401	102	200	
13	401	102	200	
14	402	101	200	
15	400	102	201	
16	*402*	*100*	*203*	
17	401	101	202	
18	400	100	200	
19	402	101	202	
20	401	100	201	
Average of 20	**401**	**101**	**201**	

Assistant Executive Engineer,
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Bangalore.

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) : CP-2017-12-27-04 Date: 30-12-17

ıple ID No : 2017-12-27-04/02

OMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	100	40100	165.5	4.1	4.6
2	402	101	40602	198.2	4.9	
3	400	101	40400	178.9	4.4	
4	400	100	40000	188.2	4.7	
5	401	102	40902	186.5	4.6	
6	402	100	40200	199.2	5.0	
7	401	103	41303	190.3	4.6	
8	400	100	40000	191.3	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-12-27-04** **Date: 30-12-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	27-12-17
Sample ID No	:	2017-12-27-04/01
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	27-12-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	200	202	16160	32.240	1995.0	1990.7	Not less than 1800Kg/m^3
2	401	200	201	16120	32.140	1993.8		
3	402	201	200	16160	32.050	1983.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.230	32.900	4.04	3.69	Shall not be more than 10% by mass
2	34.780	33.530	3.73		
3	33.980	32.890	3.31		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

ID : CP-2017-12-27-04 Date: 30-12-17

ample ID No : 2017-12-27-04/01

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	200	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	201	
3	400	201	201	
4	400	200	200	
5	401	202	202	
6	402	200	202	
7	401	203	200	
8	400	200	201	
9	400	200	201	
10	402	200	200	
11	401	203	201	
12	401	202	200	
13	401	202	200	
14	402	201	200	
15	400	202	201	
16	402	200	203	
17	401	201	202	
18	400	200	200	
19	402	201	202	
20	401	200	201	
Average of 20	**401**	**201**	**201**	

CIVIL PRO BANGALORE Sig..... Date.....

Assistant Executive Engineer,
Kodigehalli Sub Division,
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D : CP-2017-12-27-04 Date: 30-12-17

nple ID No : 2017-12-27-04/01

OMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	200	80200	333.5	4.2	4.3
2	402	201	80802	345.0	4.3	
3	400	201	80400	360.5	4.5	
4	400	200	80000	339.2	4.2	
5	401	202	81002	342.5	4.2	
6	402	200	80400	325.2	4.0	
7	401	203	81403	386.5	4.7	
8	400	200	80000	365.4	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Yelahanka Zone, B.B.M.P.,
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-23-01** **Date: 28-12-17**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.

Agency : Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/37/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-12-17

Sample ID No : 2017-12-23-01/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-12-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	133	217	21.7	78.3	60-95	75-100	85-100	95-100
4	1.18 mm	186	403	40.3	59.7	30-70	55-90	75-100	90-100
5	600 micron	178	581	58.1	41.9	15-34	35-59	60-79	80-100
6	300 micron	215	796	79.6	20.4	5-20	8-30	12-40	15-50
7	150 micron	144	940	94.0	6.0	0-10	0-10	0-10	0-15
8	Pan	60	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-12-23-01** **Date: 28-12-17**

Sample ID No : 2017-12-23-01/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.95	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Divis...
Yelahanka Zone, B.B.M...
Bangalore.

****End of Report****

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-23-01** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-12-17
Sample ID No	:	2017-12-23-01/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO Sig..... Date..... BANGALORE

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-23-01** **Date: 28-12-17**

Sample ID No : 2017-12-23-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.6	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro. Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-12-23-01** **Date: 28-12-17**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road, drain and footpath in main and cross roads of Sahakaranagara D block in Ward no.08 Kodigehalli.
Agency	:	Executive Engineer, KRIDL, #280, 59th Cross road, 17th C main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/37/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	23-12-17
Sample ID No	:	2017-12-23-01/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-12-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	820	820	5.5	94.5	90-100
3	20 mm	5278	6098	40.7	59.3	30-70
4	10 mm	4532	10630	70.9	29.1	10-35
5	4.75 mm	4190	14820	98.8	1.2	0-5
6	Pan	180	15000	100.0	0	---

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL PRO BANGALORE Sig..... Date.....

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-12-23-01** **Date: 28-12-17**

Sample ID No : 2017-12-23-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**11.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.5**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.48**	_
5	Bulk Density(Compacted) (Kg/l)	**1.52**	_
6	Water Absorption(%)	**0.23**	_

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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